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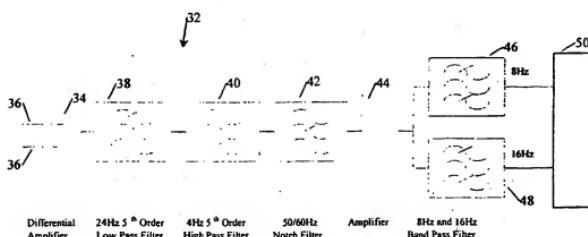
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(54) Title: FAULT LOCATION DEVICE AND METHOD



Differential Amplifier 24Hz 5th Order Low Pass Filter 4Hz 5th Order High Pass Filter 50/60Hz Notch Filter Amplifier 48 Hz and 16Hz Band Pass Filter

(57) Abstract: Device (32) for determining location of a fault in an underground cable causing an earth leakage path from an internal conductor to earth at the location of the fault, such that when signal is applied to the conductor, earth leakage signal flows between the earth and conductor at the location of the fault. A multi-frequency signal is applied to the cable, this having at least two frequency components. Probe means (24a, 24b) is positionable to receive the earth leakage signal. A processor (50) rectifies a first component of the earth leakage signal, corresponding to one frequency component of said applied signal, multiplies the rectified first component of the earth leakage signal with a second component of the earth leakage signal, corresponding to another frequency component of the applied signal, and from the result of that multiplication, indicates the direction from the device to the fault.

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